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# मानक

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IS 15604 (2005): Methomyl soluble powder [FAD 1: Pesticides and Pesticides Residue Analysis]



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भारतीय मानक

मेथोमाईल घुलनशील पाउडर — विशिष्टि

*Indian Standard*

METHOMYL SOLUBLE POWDER — SPECIFICATION

ICS 65.100.10

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**BUREAU OF INDIAN STANDARDS**  
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## FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Pesticides and Pesticides Residue Analysis Sectional Committee had been approved by the Food and Agriculture Division Council.

Methomyl soluble powder is used as an insecticide in agriculture.

Methomyl soluble powder is generally manufactured to contain 40 percent *m/m* of methomyl.

In preparation of this standard, due consideration has been given to the provisions of the *Insecticides Act*, 1968 and the Rules framed thereunder. However, this standard is subject to the restrictions imposed under the *Insecticides Act* and *Rules*, wherever applicable.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

## *Indian Standard*

# METHOMYL SOLUBLE POWDER — SPECIFICATION

### 1 SCOPE

This standard prescribes the requirements, the methods of sampling and test for methomyl soluble powder.

### 2 REFERENCES

The following standards contain provisions which through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below:

| <i>IS No.</i>             | <i>Title</i>                                                                               |
|---------------------------|--------------------------------------------------------------------------------------------|
| 1070 : 1992               | Reagent grade water ( <i>third revision</i> )                                              |
| 6940 : 1982               | Methods of test for pesticides and their formulations ( <i>first revision</i> )            |
| 8190<br>( Part 1 ) : 1988 | Requirements for packing of pesticides: Part 1 Solid pesticides ( <i>second revision</i> ) |
| 10627 : 1983              | Methods for sampling of pesticide formulations                                             |
| 15614 : 2005              | Methomyl, technical — Specification                                                        |

### 3 REQUIREMENTS

#### 3.1 Constituents

**3.1.1** The material shall consist of methomyl, technical together with suitable carrier(s), stabilizer(s) and other formulants.

**3.1.2** Methomyl, technical employed in the manufacture of the material shall conform to IS 15614.

#### 3.2 Physical

The material shall comply with the physical requirement specified in 3.2.1.

##### 3.2.1 Description

The material shall be a light blue coloured homogeneous powder. It shall wet readily on mixing with water, providing a solution suitable for use as spray.

#### 3.3 Chemical

The material shall also comply with chemical requirements specified in 3.3.1, 3.3.2 and 6.

**3.3.1** The nominal methomyl content shall be declared. When determined by the method prescribed in Annex A of IS 15614, the observed methomyl content, percent ( *m/m* ) of any of the samples shall not differ from the declared nominal value by more than the percent tolerance limits indicated below:

| <i>Nominal Value,<br/>Percent</i> | <i>Tolerance Limits,<br/>Percent</i> |                              |
|-----------------------------------|--------------------------------------|------------------------------|
| Up to 9                           | + 10<br>- 5                          | } of the<br>nominal<br>value |
| Above 9 and below 50              | ± 5                                  |                              |
| 50 and above                      | + 5<br>- 3                           |                              |

#### 3.3.2 Alkalinity

When tested by the method specified in 11.3.3 of IS 6940, the alkalinity ( as NaOH ) of the material shall not be more than 0.4 percent by mass.

### 4 PACKING

**4.1** The material shall be packed in HDPE pouch of thickness 0.062 mm, suitably heat sealed to make it leak proof and pilfer proof. This shall be individually inserted in HDPE ( rigid ) container, which shall be heat sealed with HDPE plug and finally closed with HDPE screw caps. The closure system shall be leak proof and pilfer proof. The HDPE container shall be further packed in corrugated fibre board boxes.

**4.2** Alternatively, the product shall be packed in HDPE pouches manufactured from the virgin material. The pouches shall be heat sealed suitably to make it leak proof and pilfer proof. HDPE heat sealed pouches shall be further packed in corrugated fibre board boxes.

**4.3** All the containers shall also comply with the general requirements as given in IS 8190 ( Part 1 ).

### 5 MARKING

**5.1** The containers shall bear legibly and indelibly the following information in addition to the information as is necessary under the *Insecticides Act*,

1968 and Rules framed thereunder:

- a) Name of the material;
- b) Name and address of the manufacturer;
- c) Batch number;
- d) Date of manufacture;
- e) Date of expiry;
- f) Net mass of contents;
- g) Nominal methomyl content, percent ( *m/m* );
- h) The cautionary notice as worded in *Insecticides Act, 1968* and Rules framed thereunder; and
- j) Any other information required under the *Standards of Weights and Measures (Packaged Commodities) Rules, 1977*.

## 5.2 BIS Certification Marking

The product may also be marked with the Standard Mark.

**5.2.1** The use of the Standard Mark is governed by the provisions of the *Bureau of Indian Standards Act, 1986* and the Rules and Regulations made thereunder. The details of conditions under which the licence for the use of the Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

## 6 SAMPLING

When freshly manufactured material in bulk quantity and/or the retail pack of the formulated product is/are offered for inspection, representative sample of the material shall be drawn and tested as prescribed in IS 10627 and if tested within 90 days of its date of manufacture, the criteria for conformity shall be the content in percent ( *m/m* ) shall not be less than the declared nominal value. The upper limit for conformity shall be the same as those given in 3.3.1.

When the material is offered for inspection after 90 days of its manufacture, sampling shall be done as prescribed in IS 10627. However, the criteria for conformity of the material, when tested, shall be the limit of tolerance, as applicable over the declared nominal value and given in 3.3.1.

## 7 TESTS

**7.1** Tests shall be carried out by the methods referred in 3.2.1, 3.3.1 and 3.3.2.

### 7.2 Quality of Reagents

Unless specified otherwise, pure chemicals and reagent grade water ( *see* IS 1070 ) shall be employed in tests.

NOTE — 'Pure chemicals' shall mean chemicals that do not contain impurities, which affect the results of analysis.

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This Indian Standard has been developed from Doc : No. FAD 1 ( 1347 ).

#### Amendments Issued Since Publication

| Amend No. | Date of Issue | Text Affected |
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